

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"4669465".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/27 19:36
S2	0	tracee-eidenschink.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/26 14:28
S3	3	eidenschink-tracee.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/12/09 10:52
S4	413	(catheter or shaft or tubular with flexible)and (raise\$ adj pattern or tread adj pattern)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/12/09 11:22
S5	1	((catheter or shaft or tubular with flexible)and (raise\$ adj pattern or tread adj pattern))) and (guide adj catheter or balloon adj catheter same torque\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/12/09 11:01
S6	0	((catheter or shaft or tubular with flexible)and (raise\$ adj pattern or tread adj pattern))) and (guide adj catheter same torque\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/12/09 11:02
S7	1	((catheter or shaft or tubular with flexible)and (raise\$ adj pattern or tread adj pattern))) and (guide near catheter) and (torque\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/12/09 11:03
S8	1	((catheter or shaft or tubular with flexible)and (raise\$ adj pattern or tread adj pattern))) and (PTA or PTCA)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/12/09 11:06
S9	1	((catheter or shaft or tubular with flexible)and (raise\$ adj pattern or tread adj pattern))) and (PTA)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/12/09 11:06

## EAST Search History

S10	7	((catheter or shaft or tubular with flexible)and (raise\$ adj pattern or tread adj pattern)))and("606"/\$. CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/12/09 11:07
S11	0	(((((catheter or shaft or tubular with flexible)and (raise\$ adj pattern or tread adj pattern)))and(@ad<"20011227")) and (vascular same tortuous)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/12/09 11:26
S12	4	(((((catheter or shaft or tubular with flexible)and (raise\$ adj pattern or tread adj pattern)))and(@ad<"20011227")) and (vascular)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/12/09 11:32
S13	2	((catheter or shaft or tubular with flexible)and (raise\$ adj pattern or tread adj pattern)) and ("604"/\$. ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/12/09 11:33
S14	1359	guide near catheter same dimpling or raise\$ adj pattern	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/12/10 09:27
S15	1	(guide near catheter same dimpling or raise\$ adj pattern) and PTA	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/12/10 09:27
S16	7	((guide near catheter same dimpling or raise\$ adj pattern)) and (vascular or blood adj vessel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/12/10 09:28
S17	8	("4029084"   "4658817"   "4669465"   "4846171"   "5125926"   "5380316"   "5389096"   "5591159").PN.	USPAT	OR	OFF	2003/12/10 09:31
S18	375	((catheter or shaft or tubular with flexible)and (raise\$ adj pattern or tread adj pattern)))and(@ad<"20011227"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/26 15:12
S19	1	((catheter with flexible)and (raise\$ adj pattern or tread adj pattern)))and(@ad<"20011227"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/12/10 10:03

## EAST Search History

S20	4	"6602225".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/12/10 10:04
S21	6	("5549551"   "5571087"   "5669924"   "5921958"   "6039749"   "6142973").PN.	USPAT	OR	OFF	2003/12/10 10:04
S22	0	"6602225".URPN.	USPAT	OR	OFF	2004/06/26 13:52
S23	0	"6602225".URPN.	USPAT	OR	OFF	2003/12/10 10:09
S24	1	"5571114".PN.	USPAT	OR	OFF	2004/06/26 13:53
S25	1	"4669465".PN.	USPAT	OR	OFF	2004/06/26 13:53
S26	0	((600/433.ccls)or (600/435.ccls)) and catheter	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/26 14:30
S27	302	(600/433,435.ccls.) and (catheter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/26 14:48
S28	0	((600/433,435.ccls.) and (catheter)) and (raised adj pattern)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/26 14:31
S29	0	((600/433,435.ccls.) and (catheter)) and (raised adj pattern or tread adj pattern)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/26 14:32
S30	0	((600/433,435.ccls.) and (catheter)) and (raise\$ adj pattern or tread adj pattern)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/26 14:33
S31	1	((600/433,435.ccls.) and (catheter)) and (dimpling)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/26 14:33
S32	12	("3612058"   "4763647"   "4920980"   "5001825"   "5106381"   "5231989"   "5238005"   "5255668"   "5336182"   "5363861"   "5431168"   "5497784").PN.	USPAT	OR	OFF	2004/06/26 14:41

## EAST Search History

S33	8	("2095563"   "2199602"   "2379801"   "4080706"   "4619274"   "4721117"   "4811743"   "4832047").PN.	USPAT	OR	OFF	2004/06/26 14:46
S34	0	(600/433,435.ccls.) and (catheter)and (tread adj pattern)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/26 14:49
S35	0	(600/433,435.ccls.) and (catheter)and (raise\$) same (pattern)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/26 14:49
S36	11	(600/433,435.ccls.) and (catheter)and (raise\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/26 14:50
S37	2	"6368316".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/20 15:00
S38	322	(600/433,434,435.ccls.)and (catheter with flexible)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/20 15:02
S39	0	(S38) and (raise\$ adj pattern or tread adj pattern)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/20 15:04
S40	0	(S38) and (raise\$ adj pattern or dimpling)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/20 15:04
S41	0	(S38) and (raise\$ adj pattern)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/20 15:05
S42	15	(S38) and (raise\$ or dimpling)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/20 15:05

## EAST Search History

S43	67	("1207479"   "4033331"   "4181131"   "4245624"   "4753223"   "4826087"   "5041085"   "5098412"   "5156151"   "5263493"   "5273535"   "5306245"   "5368592"   "5370675"   "5399165"   "5415656"   "5437665"   "5439006"   "5472017"   "5482037"   "5487385"   "5487757"   "5500012"   "5549661"   "5571088"   "5637090"   "5642736"   "5672174"   "5702368"   "5702438"   "5709224"   "5730127"   "5738683"   "5782899"   "5800482"   "5800484"   "5820591"   "5836947"   "5863291"   "5865800"   "5879295"   "5895417"   "5910129"   "5931811"   "5938660"   "5971983"   "6012457"   "6013052"   "6016811"   "6027473"   "6048329"   "6064902"   "6071274"   "6071279"   "6120500"   "6152899"   "6203525"   "6237605"   "6311692"   "6314962"   "6314963"   "6332880"   "6402746"   "6413234"   "6454758"   "6464700").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/20 15:50
S44	3	"6607505".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/20 15:50
S45	307	604/524.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/21 08:46
S46	0	(S45) and (shaft or tube) and (raise\$ near4 outer adj surface)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/21 08:48
S47	26	(S45) and (shaft or tube) and (raise\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/21 08:48
S48	8	("3485234"   "3498286"   "3924632"   "4044765"   "4425919"   "5217440").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/21 09:10

## EAST Search History

S49	43	("3131615"   "3416531"   "3485234"   "3498286"   "3554237"   "3598126"   "3618614"   "3684605"   "3861972"   "3879516"   "3924632"   "4080999"   "4081303"   "4133972"   "4262704"   "4400228"   "4411655"   "4425919"   "4430083"   "4463779"   "4478898"   "4510974"   "4547193"   "4644623"   "4647326"   "4655769"   "4707206"   "4740207"   "4777955"   "4784144"   "4817613"   "4863442"   "4892099"   "4899787"   "4923541"   "4955377"   "4969890"   "4976691").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/21 09:23
S50	2	"5217440".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/21 09:23
S51	2	"6165163".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/21 09:24
S52	2	"4817613".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/12 15:39
S53	2	"4669465".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/12 15:39
S54	2	"5217440".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:02
S55	159538	(catheter or tube or tubular with raise\$2 adj pattern or tread) and (vessel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:05
S56	878	(catheter with raise\$2 adj pattern or tread) and (vessel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:06

## EAST Search History

S57	1	(catheter with raise\$2 adj pattern) and (vessel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:05
S58	1	S56 and (606/194.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:06
S59	1	S57 and (bearing adj points)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:07
S60	1	S57 and (bearing near points)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:07
S61	1	S57 and (bearing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:11
S62	1	S57 and (bearing or carriage)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:11
S63	0	S57 and (carriage)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:11
S64	0	S57 and (peak)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:12
S65	0	S57 and (notch)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:12
S66	0	S57 and (pitch)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:14

## EAST Search History

S67	0	S57 and @pd<"20011227"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:15
S68	573	S56 and @pd<"20011227"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:16
S69	73	S68 and torque	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:50
S70	2	S69 and laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:16
S71	2091	604/523,524,525.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:51
S72	0	S71 and (catheter with raised adj pattern) and (torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:52
S73	278	S71 and (catheter) and (torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 12:52
S74	30	S73 and (knurled or etched)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 13:00
S75	1	(606/108.ccls.) and (catheter) and (knurled) and (etched)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 13:03
S76	1044	(606/108.ccls.) and (catheter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 13:03



## EAST Search History

S77	1	S76 and torque and knurled	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 13:05
S78	17	S76 and knurled	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 13:07
S79	78951	(catheter or tube or tubular or sheath with raise\$2 near pattern) same (bearing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/22 15:20
S80	35666	transmission same torque same shaft	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/22 15:21
S81	22	transmission same torque same shaft same (balloon adj catheter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/22 15:23
S82	0	S79 and S81	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/22 15:22
S83	78973	S79 or S81	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/22 15:22
S84	2	"6350271".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/22 15:24

## EAST Search History

S85	29	("3868956"   "4299225"   "4425908"   "4612931"   "4765332"   "4919133"   "5009659"   "5071407"   "5108406"   "5108407"   "5192286"   "5201741"   "5324304"   "5330482"   "5342371"   "5421832"   "5496330"   "5601595"   "5665098"   "5669933"   "5697936"   "5725543"   "5792145"   "5800525"   "5814064"   "5827304"   "5827324"   "5846260"   "6066149").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/22 15:24
S86	2	"4842590".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/13 10:52
S87	2	"4817613".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/13 12:23
S88	2	"4842590".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/13 12:23
S89	8	("3470869"   "3485234"   "3965909"   "4385635"   "4425919"   "4498473").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 12:23
S90	102	("4842590").URPN.	USPAT	OR	OFF	2006/03/13 12:36
S91	2	"5329923".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/13 12:36
S92	23	("1557958"   "3071942"   "3390546"   "3844137"   "4273111"   "4456017"   "4465482"   "4580551"   "4601713"   "4660571"   "4664113"   "4911148"   "4920980"   "4940062"   "4941455"   "4942866"   "4960134"   "4969890"   "4998923"   "5037391").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 12:36
S93	2	"5329923".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/25 09:27

## EAST Search History

S94	2	"4465482".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/25 09:28
S95	2	"4669465".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/25 09:28
S96	1	"5329923".pn.	USPAT	OR	OFF	2006/11/28 11:52
S97	2	"5329923".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/13 08:30
S98	2	"4465482".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/13 08:31
S99	0	606/526,528,529.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:13
S10 0	880	604/526,528,529.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:14
S10 1	536	S100 and @pd<"20011227"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:33
S10 2	444	(catheter or shaft or tubular with flexible)and (outer with surface) same (protrusion or knurl\$2) and (vessel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:33

## EAST Search History

S10 3	9	S101 and S102	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:32
S10 4	1393	604/174,175,176.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:32
S10 5	1053	S104 and @pd<"20011227"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:35
S10 6	4	S105 and S102	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:34
S10 7	2	"6893421".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/01 09:35

## EAST Search History

S10 8	69	("4578061"   "4658817"   "4760131"   "4790311"   "4857057"   "4896671"   "4973321"   "5047026"   "5093877"   "5261889"   "5287861"   "5353800"   "5354279"   "5358485"   "5364393"   "5370675"   "5380316"   "5389096"   "5403311"   "5405376"   "5431649"   "5464395"   "5486161"   "5522815"   "5551427"   "5569462"   "5591159"   "5593394"   "5593405"   "5601586"   "5601588"   "5607405"   "5620414"   "5672174"   "5681308"   "5683366"   "5697882"   "5700259"   "5713894"   "5725521"   "5725523"   "5762631"   "5766164"   "5769843"   "5797870"   "5807388"   "5810836"   "5827203"   "5840059"   "5845646"   "5871495"   "5873366"   "5873855"   "5911729"   "5913853"   "5921982"   "5925033"   "5931848"   "5944716"   "5947989"   "5964754"   "6042581"   "6045565"   "6053911"   "6053924"   "6056742"   "6056743"   "6086582"   "6217554").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/01 09:44
S10 9	0	("6893421").URPN.	USPAT	OR	OFF	2007/05/01 09:50
S11 0	1258	604/93.01,164.01.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/01 09:58
S11 1	575	S110 and @pd<"20011227"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/01 09:58
S11 2	9	(outer with surface) same (protrusion or knurled)and (tube or tubular) and (S111)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/01 10:01

## EAST Search History

S11 3	907	604/540-544.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/01 09:58
S11 4	477	S113 and @pd<"20011227"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/01 10:25
S11 5	5	(outer with surface) same (protrusion or knurled)and (tube or tubular) and (S114)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/01 10:00
S11 6	124	(outer with surface) same (protrusion or knurled)and (tube or tubular) and ("138"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/01 10:25
S11 7	121	604/103.09.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/01 10:25
S11 8	70	S117 and @pd<"20011227"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/01 10:34
S11 9	3245	(outer with surface) same (protrusion or knurled) and (tube or tubular).clm.	US-PGPUB; USPAT	OR	OFF	2007/05/11 15:39
S12 0	1	(outer with surface) same (protrusion or knurled) and (tube or tubular)and (raised) and (bearing with points).clm.	US-PGPUB; USPAT	OR	OFF	2007/05/11 15:40

## EAST Search History

S12 1	4126	623/1.11,1.12,1.15,1.23,2.11.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/25 11:38
S12 2	877	S121 and (@pd<"20011227")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/25 11:25
S12 3	6061	(pattern or bumps) and (catheter) and (stent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/25 11:26
S12 4	263	S122 and S123	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/25 11:27
S12 5	2683	("623"/\$.ccls.) and (S123)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/25 11:39
S12 6	263	S125 and S122	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/25 11:40
S12 7	2	"4871358".PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/15 17:14

## EAST Search History

S12 8	2	"6569192".PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/15 17:16
S12 9	2	"6221059".PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/15 17:29
S13 0	2	"6942680".PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/15 17:31
S13 1	2	"6129706".PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/15 17:31